

Title: Traffic simulation

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Abstract: The goal of this bachelor thesis is to create a program that simulates the traffic in user defined city. Application mainly watches the status of roads, monitors number of vehicles on them and when the road becomes full, program reports traffic jam and diverts part of the traffic in order to reduce the jam or even completely eliminate it. Besides personal traffic it minitors vehicles of city public transport planned by time table. After the end of simulation it suggest changes that can optimilize time of arrivals of scheduled traffic nearer to scheduled time of arrivals.

Keywords: traffic, simulation, jam